

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,968	01/10/2005	Hiroaki Kikuchi	09852/0202320-US0	4946
7278 DARBY & DAI	7590 03/19/2007		<u> </u>	
P. O. BOX 5257	7	:		
NEW YORK, N	NY 10150-5257			
,				
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	VTHS	03/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	·		
ı	Application No.	Applicant(s)	
	10/520,968	KIKUCHI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Christopher M. Koehler	3726	
The MAILING DATE of this communication a	ppears on the cover sheet wit	th the correspondence address	
Period for Reply	IVIC CET TO EVOIDE AM	ONTUVE) OR THIRTY (20) DAY	· /C
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statuenty reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a red d will apply and will expire SIX (6) MONing ute, cause the application to become AB.	CATION. sply be timely filed IHS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>08</u>	December 2006	•	
2a)⊠ This action is FINAL . 2b)☐ Th	nis action is non-final.		
3) Since this application is in condition for allow	ance except for formal matte	ers, prosecution as to the merit	s is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-5 and 7-13</u> is/are pending in the a	application.		
4a) Of the above claim(s) is/are withdr			
5) Claim(s) is/are allowed.		•	
6)⊠ Claim(s) <u>1,3,5,8,12 and 13</u> is/are rejected.			
7) \boxtimes Claim(s) <u>2,4,7 and 9-11</u> is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		4
10) The drawing(s) filed on is/are: a) a		by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is objected to. See 37 CFR 1.12	21(d).
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152	2.
Priority under 35 U.S.C. § 119	•		
12)⊠ Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)⊠ All b) ☐ Some * c) ☐ None of:			
 Certified copies of the priority docume 	nts have been received.		
Certified copies of the priority docume			
Copies of the certified copies of the pr	•	received in this National Stage	!
application from the International Bure			
* See the attached detailed Office action for a li	st of the certified copies not	received.	
•			
Attachment(s)	[, , , , , , , , , , , , , , , , , , ,	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		summary (PTO-413) s)/Mail Date	•
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Ir	nformal Patent Application	
Paper No(s)/Mail Date	6) [Other:	<u>—</u> ·	

Application/Control Number: 10/520,968

Art Unit: 3726

DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1, 3, 5, 8, 12 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Shusen et al (CN 1285249A (English translation accompanies this office action)).

Claim 1:

Shusen teaches a manufacturing method for forming a frame body that forms a metal frame body comprising the steps of ring rolling a metal to form a ring shaped member (figure 4), pressing and deforming the ring-shaped member in radial directions thereof (figure 6) to form a rectangular member, die forging the rectangular member in a mold to form a frame body (figure 7 and claim 1).

Claim 3:

Shusen teaches that when forming the rectangular member an insert is disposed inside the ring-shaped member (figure 6).

Claims 5 and 8:

Shusen teaches that the height of the pre-form, i.e. rectangular member is a critical factor in the process and that the height must be the height of one pre-form before it is inserted into the mold to be forged. Therefore if the rectangular member were to be of a height greater than one rectangular member, i.e. a plurality of frame bodies, the rectangular member would be cut at a height equivalent to the one frame

Application/Control Number: 10/520,968

Art Unit: 3726

body to be die forged separately (last paragraph on page 6-page 7 of supplied translation).

Claim 12:

Shusen teaches a manufacturing method for forming a frame body that fromse a metal frame body comprising ring rolling a metal to form a ring-shaped member (figure 4), pressing and deforming the ring-shaped member in first and second radial directions thereof (figure 6), wherein the second radial direction is generally perpendicular to the first radial direction (generally form a 90 degree angle) and die forging the rectangular member in a mold to form a frame body (figure 7).

Claim 13:

Shusen teaches a manufacturing method for a frame body that forms a metal frame body comprising ring rolling a metal to form a ring-shaped member (figure 4), pressing and deforming the ring-shaped member in first radial direction thereof to form a first side and in a second direction generally perpendicular to the first side to form a rectangular member (figure 6), and die forging the rectangular member in a mold to form a frame body (figure 7).

Allowable Subject Matter

- 3. Claims 2, 4, 7 and 9-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

Page 4

Application/Control Number: 10/520,968

Art Unit: 3726

5. Regarding claims 2, 4, 7, 9 and 11, the prior art fails to explicitly teach that in the forming step the angle of the corner portion is made smaller than the prescribed angle in the frame body after die forging in combination with the other limitations of the claims.

6. Regarding claim 10, the prior art fails to explicitly teach that in forming the rectangular member a convexity which is convex towards an inside of the rectangular member is formed at a middle of a wall portion of the rectangular member by bending in combination with the other limitations of the claims

Response to Arguments

- 7. Applicant's arguments filed 12/8/2006 have been fully considered but they are not persuasive.
- 8. Applicant argues that Shusen does not teach forming from a ring-shape into a rectangular shape via an intermediate rectangular shape. As can be found in the accompanying updated translation of the Shusen application (regrettably, portions of page 3 of Shusen were not included in the previous translation), Shusen teaches forming a ring shaped member and marking 4 angles (figure 4), the expanded hole ring with the markings on it is stretched (figure 5), a fixture is used specifically for making arcuate angles is shown in figure 6, and is subsequently die forged. See updated (accompanying) translation pages 11-12.

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/520,968 Page 5

Art Unit: 3726

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Koehler whose telephone number is (571) 272-3560. The examiner can normally be reached on Mon.-Fri. 7:30A-4:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/520,968 Page 6

Art Unit: 3726

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CMK

DAVID P. BRYANT SUPERVISORY PATENT EXAMINER

3/15/07